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<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/061,504	NEFF, ROBERT M.R.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Linh M. Nguyen	2816	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed 5/12/2005.
2. ☒ The allowed claim(s) is/are 1-3,5-13,15-18 and 20-28.
3. ☐ The drawings filed on \_\_\_\_\_ are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
  1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☒ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☒ including changes required by the attached Examiner's ~~Amendment~~ Comment or in the Office action of Paper No./Mail Date 05/18/05.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |  |
|---|--|
| <ol style="list-style-type: none"> <li>1. <input type="checkbox"/> Notice of References Cited (PTO-892)</li> <li>2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br/>Paper No./Mail Date <u>02/17/04</u>.</li> <li>4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br/>of Biological Material</li> </ol> | <ol style="list-style-type: none"> <li>5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)</li> <li>6. <input type="checkbox"/> Interview Summary (PTO-413),<br/>Paper No./Mail Date _____.</li> <li>7. <input checked="" type="checkbox"/> Examiner's <del>Amendment</del> Comment</li> <li>8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance</li> <li>9. <input type="checkbox"/> Other _____.</li> </ol> |
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**DETAILED ACTION**

This is a reply to the Applicant's amendment submitted on 5/12/2005. According to this amendment, claims 4, 14 and 19 are cancelled; and thus, claims 1-3, 5-13, 15-18 and 20-28 are currently presented in the instant application.

***Allowable Subject Matter***

1. Claims 1-3, 5-13, 15-18 and 20-28 are allowed.

***Reasons for Allowance***

2. The following is an examiner's statement of reasons for allowance:

The closest prior art fails to disclose or fairly suggest:

Prior art of record does not show or fairly suggest (1) a specific frequency of the interleaved clock signals and that of the input clock signal; wherein (a) for the interleaved clock signals, the frequency is  $1/(N \times T_d)$ , and (b) for the input clock signal, (b<sub>1</sub>) the frequency is  $1/(M \times T_d)$  when the interleaved clock generator means of the first type includes the multi-stage serial delay means, and (b<sub>2</sub>) the frequency is  $M/(N \times T_d)$  when the interleaved clock generator means of the first type includes the ring counter circuit, as called for in claims 1, 13 and 23; (2) an interleaved clock signal generator, in which (a) the input clock signal comprises differential clock signals, (b) each of the differential clock signals has 50% duty cycle, (c) the multi-stage serial-delay circuit includes  $M/2$  delay stages, and (d) each of the delay stages provides two of the intermediate clock signals, as called for in claims 8 and 24; (3) an interleaved clock generator (a) for generating  $N$  interleaved clock signals in response to an input clock signal, where  $N$  is *non-prime integer*, and (b) an interleaved clock generator means of a first type for generating in response thereto  $M$  interleaved intermediate clock signals, where  $M$  is a factor

Art Unit: 2816

of N and is *an integer greater than unity*, the interleaved clock generator means of the first type including a ring counter circuit, as called for in claims 9, 18 and 25.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Remarks***

3. Upon receiving this Notice of Allowability the Applicant must provide the followings:

#### Drawings:

Corrected drawing of Figure 5A, with the correction of missing part of the output line from [142-4], the missing part is located between [134-2] and CK of [122-3] (right bottom corner of Figure).

### ***Inquiry***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Linh M. Nguyen whose telephone number is (571) 272-1749. The examiner can normally be reached on Alternate Fri, Monday - Thursday from 7:00 to 4:30.

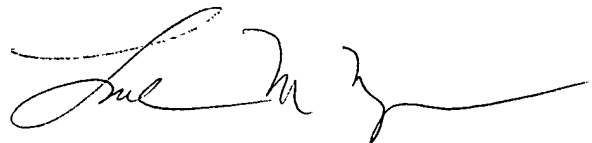
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy P. Callahan can be reached on (571) 272-1740. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2816

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Linh M. Nguyen  
Primary Examiner  
Art Unit 2816

LMN

A handwritten signature in black ink, appearing to read 'Linh M. Nguyen', with a long horizontal flourish extending to the right.